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Plant	Zone <sup>1</sup>	Form	Inundation Tolerance	Wildlife Value	Notes
Arrow Arum (Peltandra virginica)	2	Emergent	Up to 1 ft.	High; berries are eaten by wood ducks	Full sun to partial shade
Broad-Leaf Arrow- head (Duck Potato) (Saggitaria latifolia)	2	Emergent	Up to 1 ft.	Moderate; tu- bers and seeds eaten by ducks	Aggressive colonizer
Blueflag Iris* (Iris versicolor)	2, 3	Emergent	Up to 6 in.	Limited	Full sun (to flower) to partia shade
Broomsedge (Andropogon virgin- ianus)	2, 3	Perimeter	Up to 3 in.	High; songbirds and browsers; winter food and cover	Tolerant of fluctuating water levels and partial shade
Bulltongue Arrowhead (Sagittaria lancifolia)	2, 3	Emergent	0-24 in	Waterfowl, small mammals	Full sun to partial shade
Burreed (Sparganium americanum)	2, 3	Emergent	0-6	Waterfowl, small mammals	Full sun to partial shad
Cardinal Flower * (Lobelia cardinalis)	3	Perimeter	Periodic inundation	Attracts hum- mingbirds	Full sun to partial shade
Common Rush (Juncus sp.)	2, 3	Emergent	Up to 12 in.	Moderate; small mammals, wa- terfowl, song- birds	Full sun to partial shade
Common Three Square (Schoenoplectus americanus)	2	Emergent	Up to 6 in.	High; seeds, cover, water- fowl, songbirds	Fast colonizer; can tolerate periods of dryness; full sun; high metal removal
Duckweed (Lemna sp.)	1, 2	Submer- gent / Emergent	Yes	High; food for waterfowl and fish	May biomagnify metals beyond concentrations found in the water
Joe Pye Weed (Eutrochium purpureum)	2, 3	Emergent	Drier than other Joe- Pye Weeds; dry to moist areas; periodic inundation	Butterflies, songbirds, insects	Tolerates all light conditions
Lizard's Tail (Saururus cernuus)	2	Emergent	Up to 1 ft.	Low; except for wood ducks	Rapid growth; shade-tolerant

Plant	Zone <sup>1</sup>	Form	Inundation Tolerance	Wildlife Value	Notes
Marsh Hibiscus (Hibiscus moscheutos)	2, 3	Emergent	Up to 3 in.	Low; nectar	Full sun; can tolerate periodic dryness
Pickerelweed (Pontederia cordata)	2, 3	Emergent	Up to 1 ft.	Moderate; ducks, nectar for butterflies	Full sun to par- tial shade
Pond Weed (Potamogeton pectinatus)	1	Submer- gent	Yes	Extremely high; waterfowl, marsh and shore birds	Removes heavy metals from the water
Rice Cutgrass (Leersia oryzoides)	2, 3	Emergent	Up to 3 in.	High; food and cover	Prefers full sun, although toler- ant of shade; shoreline stabi- lization
Sedges (Carex sp.)	2, 3	Emergent	Up to 3 in.	High; waterfowl, songbirds	Wetland and upland species
Softstem Bulrush ( Schoenoplectus tabernaemontani)	2, 3	Emergent	Up to 2 ft.	Moderate; good cover and food	Full sun; ag- gressive colo- nizer; high pol- lutant removal
Swamp Smartweed (Polygonum hydropiperoides)	2	Emergent	Up to 1 ft.	High; water- fowl, songbirds; seeds and cover	Fast colonizer; avoid weedy aliens, such as P. Perfoliatum
Spatterdock (Nuphar lutea)	2	Emergent	Up to 1.5 ft.	Moderate for food, but High for cover	Fast colonizer; tolerant of vary- ing water levels
Switchgrass (Panicum virgatum)	2, 3, 4	Perimeter	Up to 3 in.	High; seeds, cover; water- fowl, songbirds	Tolerates wet/ dry conditions
Sweet Flag * (Acorus calamus)	2, 3	Perimeter	Up to 3 in.	Low; tolerant of dry periods	Tolerates acidic conditions; not a rapid colonizer
Waterweed (Elodea canadensis)	1	Submer- gent	Yes	Low	Good water oxygenator; high nutrient, copper, manga- nese and chro- mium removal

Table 4.12-2 Emergent and Submergent Plants Recommended for Stormwater Wetlands Inundation **Plant** Zone<sup>1</sup> Form Wildlife Value Notes **Tolerance** High; food for Tolerant of Wild celery Submerwaterfowl; habimurky water (Vallisneria 1 Yes gent tat for fish and and high nutriamericana) invertebrates ent loads Wild Rice High; food, 2 Up to 1 ft. Emergent Prefers full sun (Zizania aquatica) birds Fresh tidal and nontidal, Woolgrass High: waterfowl, swamps, for-3, 4 Emergent yes (Scirpus cyperinus) small mammals ested wetlands, meadows, ditches

<sup>1</sup>Zone 1: -6 to -12 OR -18 inches below the normal pool elevation

Zone 2: -6 inches to the normal pool elevation

Zone 3: From the normal pool elevation to +12 inches

Zone 4: +12 to +36 inches; above ED zone

(Aggressive colonizers are shown in bold type)

\*Not a major colonizer, but adds color

## Wetland Maintenance Criteria

Successful establishment of constructed wetland areas requires that the following tasks be undertaken in the first two years, at least twice after storm events that exceed ½ inch of rainfall.

- ❖ Spot Reseeding. Inspectors should look for bare or eroding areas in the contributing drainage area or around the wetland buffer, and make sure they are immediately stabilized with grass cover.
- ❖ Watering. Trees planted in the buffer and on wetland islands and peninsulas need watering during the first growing season. In general, consider watering every three days for first month, and then weekly during the first growing season (March November), depending on rainfall. The total amount of water applied to the plants including rainwater and irrigation should be approximately 1 inch per week. Long, slow irrigation applications promote deep root growth essential for healthy plants; consider using drip irrigation where practical.
- ❖ Reinforcement Plantings. Regardless of the care taken during the initial planting of the wetland and buffer, it is probable that some areas will remain unvegetated and some species will not survive. Poor survival can result from many unforeseen factors, such as grazing by herbivores, poor quality plant stock, water level changes, drought. Thus, it is advisable to budget for an additional round of reinforcement planting after one or two growing seasons. Construction contracts should include a care and replacement warranty extending at least two growing seasons after initial planting to selectively replant portions of the wetland that fail to fill in or survive. If a minimum coverage of 50% is not achieved in the planted wetland zones after the second growing season, a reinforcement planting should be completed.

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